

Product datasheet for **SC124455**

APOL3 (NM_145642) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APOL3 (NM_145642) Human Untagged Clone
Tag:	Tag Free
Symbol:	APOL3
Synonyms:	apoL-III; APOLIII; CG12_1; CG121
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145642, the custom clone sequence may differ by one or more nucleotides

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ATGTCCCTTGCTGGTCTTGTTTTGGCACCATTTACAGCAGGGACGAGTCTGGCCCTTACTGCAGCTGGGG  
TAGGGCTGGGAGCAGCGTCTGCTGTGACTGGGATCACCACCAGCATCGTGGAGCACTCATACACATCATC  
AGCAGAAGCTGAAGCCAGCAGGCTGACTGCAACCAGCATTGACCGATTGAAGGTATTTAAGGAAGTTATG  
CGTGACATCACACCCAATTACTTTCCCTTCTTAATAATTATTACGAAGCCACACAAACCATTGGGAGTG  
AAATCCGTGCCATCAGGCAAGCCAGAGCCAGGGCCCGACTCCCTGTGACCACCTGGCGAATCTCAGCTGG  
AAGTGGTGGTCAAGCAGAGAGAACGATTGCAGGCACCACCCGGGCAGTGAGCAGAGGAGCCCGGATCCTG  
AGTGCACCACCTCAGGCATCTTCTTGCACTGGATGTGGTCAACCTTGTATACGAGTCAAAGCACTTGC  
ATGAGGGGGCAAAGTCTGCATCTGCTGAGGAGCTGAGGCGGCAGGCTCAGGAGCTGGAGGAGAATCTAAT  
GGAGCTCACTCAGATCTATCAGCGTCTGAATCCATGCCATACCCACTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_145642 unedited ATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGGGATCCACACAGCTCAG AACAGCTGGATCTTGCTCACACTCTTCAAGAGAAGCTTCCTTGGGTTAAGAAAAAAC GAACCTTCCAGTCAGGTCAGTACTGGAGAGCTCCAAGGAAAGTCTCTCAGTGACCTGG CTGCTGGCACCATGGACTCAGAAAAGAAACGCTTACTGAAGAGGCCACCAAATACTTCC GGGAGAGAGTCAGCCAGTGCATCTGCAAATCCTGCTGACTAACAATGAAGCCTGGAAGA GATTCGTGACTGCGGCTGAATTGCCAGGGATGAGGCAGATGCTCTCTACGAAGCTTGA AGAAGCTTAGAACATATGCAGCTATTGAGGACGAATATGTGCAGCAGAAAGATGAGCAGT TTAGGGAATGGTTTTTGAAGAGTTTTCCCAAGTCAAGAGGAAGATCCAGGAGTCCATAG AAAAGCTTCGTGCCCTTGCAAATGGTATTGAAGAGGTCCACAGAGGCTGCACCATCTCCA ACGTGGTGTCCAGCTCCACTGGCGCTGCCTCTGGCATCATGTCCCTTGCTGGTCTGTNT GGCACCATNTACAGCAGGNACGAGTCTGGCCCTTACTGCNAGCTGGGTAGGGCTGGGAGC ANCGTCTGCTGTGACTGGGATCACANCAGCATCGTGGAGCACTCATAACATCATCAGCA GAAGCTGAAGCCAGCAGCTGACTGCAACCAGCATTGACCGNATGAGGTATNTTAAGAAA GTATGCGTGACACACACCCAACCTACTTNCCTTNNCTATATTATACGAACCCCAACATG GGAGTGAATCGTGCCATAGCAGCCAGACCGCCNACTCCTGGACACCTGCGATCTACTGG AGTGTGGCAGCN
Restriction Sites:	NotI-NotI
ACCN:	NM_145642
Insert Size:	2100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_145642.1</u> , <u>NP_663617.1</u>
RefSeq Size:	3564 bp
RefSeq ORF:	609 bp
Locus ID:	80833
UniProt ID:	<u>O95236</u>
Cytogenetics:	22q12.3

Gene Summary:

This gene is a member of the apolipoprotein L gene family, and it is present in a cluster with other family members on chromosome 22. The encoded protein is found in the cytoplasm, where it may affect the movement of lipids, including cholesterol, and/or allow the binding of lipids to organelles. In addition, expression of this gene is up-regulated by tumor necrosis factor-alpha in endothelial cells lining the normal and atherosclerotic iliac artery and aorta. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]

Transcript Variant: This variant (beta/b) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream translational start codon, compared to variant alpha/d. The encoded isoform (3) is shorter at the N-terminus, compared to isoform 1. Both variants beta/a and beta/b encode the same isoform.